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ABSTRACT

This directory lists federal solar energy programs and sources of information. Each listing gives a brief description of the nature of the program or type of information that is available. In addition, names, addresses, and phone numbers of contact personnel are given. The listings are grouped by agency or branch of the government. (BB)

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A Directory of Federal Sources of Information on Solar Energy

By Janet Dierker

U S DEPARTMENT OF HEALTH
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

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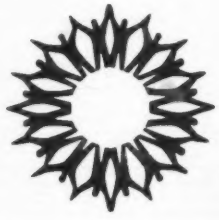

Center for Renewable Resources

1028 Connecticut Ave. NW

Suite 1100

Washington, D.C. 20036

SE 026 984

INTRODUCTION

This directory does not pretend to be a comprehensive listing of federal agencies, programs, and projects. Instead it is an outline of the highlights of government solar energy programs and sources of information. Since many federal agencies have only recently established energy offices, their services are usually limited and sometimes undefined. Most departments will refer public inquiries to the National Solar Heating and Cooling Information Center or the Technical Information Center. A Department of Energy flow chart has been included to diagram the Department's hierarchy.

ACTION

Vista

Volunteers In Service To America (VISTA) is the domestic branch of Action and works with appropriate community groups to help low income communities deal with energy problems. Volunteers are assigned to sponsoring organizations (CAA's, CDC's, etc.) to work on specific projects, such as the construction of a solar greenhouse. Vista also holds community training workshops and offers technical assistance to those unable to pay for it themselves. More than 4600 volunteers are serving communities through Vista.

For information:
800/424-8580

To become a sponsoring organization, contact:
June Needle
Office of Public Affairs
Action
Washington, D. C. 20525 202/254-7526

AGRICULTURE (USDA)

Office of Energy

The U. S. Department of Agriculture has established an Office of Energy to cope with the energy problems of agriculture. The Office of Energy develops energy strategies and policies and evaluates USDA's energy program progress. This department also advises the Secretary of Agriculture on energy policy and progress. Energy Office responsibilities include representing USDA at energy conferences and cooperating with USDA's Office of Governmental and Public Affairs to maintain contact with Congress and the public on energy-related matters.

Field questions on solar energy should initially be handled through local land grant colleges or the local extension service agricultural engineer.

The Cooperative Farm Building Plan Exchange provides energy information on house and farm service buildings and equipment. One of these plans, entitled Solar House, (plan #7220-USDA miscellaneous publication #1367), contains detailed floor plans for building a solar residence. It is available free from local land grant colleges of state universities.

Solar Heating for Milking Parlors is a USDA farmers' bulletin (#2266) which is available through the USDA Office of Communications.

contact:
Dr. Weldon Barton, Director
Office of Energy
USDA
Washington, D.C. 20250 202/447-2455

COMMERCE

National Technical Information Service

The National Technical Information Service (NTIS) is an information service organization that functions as a clearinghouse for technological innovations and specialized scientific and engineering information. It is the central source for public sale of U.S. and foreign government sponsored research, development, and engineering reports.

NTIS provides some free information but recovers its operating costs from the sale of products and services. Listed here are two free publications.

NTIS General Catalogue (includes sections on energy and solar energy)
Energy Research and Energy Information Service (energy catalogue)

contact:
NTIS
5285 Port Royal Rd.
Springfield, VA 22161 703/557-4650

National Bureau of Standards

The National Bureau of Standards (NBS) performs technical assessment of solar systems, studies technical problems of solar equipment, and evaluates product performance. A limited number of NBS technical reports are available through NTIS.

NBS provides two standards publications. A list of solar publications by the Center for Building Technology - NBS contains NBS technical notes and building science series, interagency reports, and publications for other agencies. Listed documents are available through GPO, NTIS, or as indicated. Solar Criteria and Standards Programs lists published standards, codes, and performance criteria relating to solar heating and cooling applications April 1978.

Both of these pamphlets may be obtained free from:
Center for Building Technology
National Bureau of Standards
Washington, D. C. 20234

HUD prints a document, HUD Solar Status Special Report - Solar Standards, which includes codes and standards, testing and implementation, warranties, and a list of laboratories that test solar collectors. This report is available from HUD or the National Solar Heating and Cooling Information Center.

contact:
Bob Dikkers
National Bureau of Standards
Building 225, Room A114
Washington, D. C. 20234

COMMUNITY SERVICES ADMINISTRATION (CSA)

Community Services Administration

The Community Services Administration, working through Community Action Agencies (CAA), operates several energy-oriented programs such as energy and winterization and alternative energy sources. Information on these activities may be obtained from:

Richard M. Saul
Director - Energy Project
CSA Room 316
Office of Community Action
1200 19th St., N.W.
Washington, D. C. 20506 202/632-6503

National Center for Appropriate Technology

The National Center for Appropriate Technology (NCAT) provides a strong base of technical assistance and support to low-income community projects that focus on the development and application of small scale technology. Through a series of workshops and training sessions NCAT provides appropriate technology skills and information to low-income groups. NCAT also works through its 10 regional offices to identify local problems to implementing appropriate technology and to develop programs to remove those obstacles. Self-reliance and energy self-sufficiency are stressed in the Center's programs. An annotated solar energy bibliography and an NCAT publications list are available from regional field offices

Friends of Appropriate Technology

Friends of Appropriate Technology (FAT) is a loose organization of people from government agencies, public interest groups, and legislative bodies that promotes solar energy and appropriate technology on an interagency basis. FAT's primary service is to refer inquiries to specifically targeted, appropriate individuals within an agency rather than the information office of that agency. By working on a more personal and less bureaucratic level, FAT greatly expedites information requests.

Contact:
Marianne McKenzie
FAT Room 3003
1200 19th St., N.W.
Washington, D. C. 20506 202/254-5047

CONGRESS

The Congress of the United States has several standing committees and sub-committees that deal with solar energy, conservation, and related issues. Given here are the names of the committees and the chairmen.

Senate

Energy and Natural Resources Committee

Energy Conservation and Regulation subcommittee
J. Bennett Johnson (D-LA)

Energy Production and Supply subcommittee
Floyd K. Haskell (D-CO)

Energy Research and Development subcommittee
Frank Church (D-ID)

To obtain publications or information on these committees, contact:

Secretary of the Senate
S221
Washington, D. C. 20510 202/224-2115

House

Interior and Insular Affairs Committee

Energy and The Environment subcommittee
Morris K. Udall (D-AZ)

Science and Technology Committee

Advanced Energy Technologies and Energy Conservation Research, Develpment, and Demonstration subcommittee
Mike McCormack (D-WA)

Environment and Atmosphere subcommittee
George E. Brown, Jr. (D-CO)

To obtain publications or information on these committees, contact:

House Clerk
H105 Capitol
Washington, D. C. 20515 202/225-7000

The Solar Energy Factsheet (Senate-April 26, 1978) includes a brief review of solar technologies, a listing of federal solar programs, a summary of solar-related provisions in the proposed National Energy Act, an overview of state solar programs, and a limited listing of federal information sources.

Environmental Study Conference

The Environmental Study Conference is a bipartisan legislative research organization that focuses on environmental and related energy issues in Congress. In its Weekly Bulletin, the Conference

reports on recent developments, such as emerging legislative issues, committee hearings, political maneuvering, and floor votes. The Bulletin is published every Monday Congress is in session.

For membership and Bulletin subscription information, contact:

Environmental Study Conference
U.S. Congress
3334 House Office Annex 2
Washington, D. C. 20515 202/225-2988

COUNCIL ON ENVIRONMENTAL QUALITY (CEQ)

The President's Council on Environmental Quality researches and reports on specific environmental topics to the Administration. CEQ has produced one solar publication, Solar Energy: Progress and Promise, April, 1978 (GPO-0-257-204). This document reports on reasonable goals for the solar future, summarizes recent technical and economic progress, and discusses strategies for the implementation of solar energy technologies.

DEPARTMENT OF ENERGY (DOE)

Energy Information Administration

The Energy Information Administration (EIA) is a data publication and distribution service that provides energy reports to Congress, the Administration, and the public. EIA furnishes statistical analysis, data validation and interpretation, and economic impact evaluations to assist legislators in the formulation of energy policy.

EIA lists one solar publication, Solar Collector Manufacturing Activity and Application in Residential Sector, (GPO 061-000-00047-0), which is a statistical survey of the square footage of solar collectors now in use. Also included is a manufacturers list.

Energy Information Administration Clearinghouse
EIA Room 200
Departme t of Energy
1726 M Street, N.W.
Washington, D. C. 20461

Energy Technology

Energy Technology conducts research, development, and demonstration in all energy areas and focuses on early availability of new energy technologies. There are five areas of solar technology programming in Energy Technology. Listed here are the program title and contact person for each.

Wind Energy	Louis Divone DOE Room 414 600 E Street, N.W. Washington, D.C. 20545 202/376-4878
Photovoltaics	Paul Maycock Solar Technology Division Photovoltaics 20 Massachusetts Ave., N.W. Washington, D. C. 20545 202/376-1957
Solar Thermal	Gerald Braun, Assistant Director Division of Central Solar Technology DOE Mail Stop 404 600 E Street, N.W. Washington, D.C. 20545 202/376-1934
Ocean and Thermal Energy Conversion	Sig Gronich Chief Ocean Systems Branch Room 413 600 E Street, N.W. Washington, D.C. 20545 202/376-4772
Biomass	Nello Del Gobbo, Acting Chief Fuels for Biomass Systems Branch DOE Room 404 600 E Street, N.W. Washington, D.C. 20545 202/376-1614

CONTACT:
Gary Pitchford
Office of Institutional Liason and Communications, Energy Technology
DOE
600 E Street, N.W.
Washington, D.C. 20545 202/376-9471

The Technical Information Center (TIC) is the primary DOE source of technical energy data. TIC collects, processes, and disseminates scientific and technical information and provides bibliographic data bases that identify the scientific and technical energy literature of the world. TIC provides technical reference services, document and film request services, and carries out educatio service programs devoted to aiding students and teachers in their studies of energy and to helping the general public in understanding energy issues. Copies of all DOE reports are printed, catalogued, abstracted, indexed, and distributed by TIC.

Subcategories of solar energy references at TIC include: solar resources and availability; economic aspects of solar equipment and utilization; environmental aspects of solar equipment and utilization; solar energy conversion; photovoltaic power plants; solar thermal power plants; ocean thermal gradient power plants; solar radiation

utilization; solar collectors and concentrators; and solar heat storage and rejection. There is less comprehensive coverage on indirect solar energies, tidal power, and wind power.

These are some free TIC publications:

DOE Technical Information Center - Its Function and Services
TID-4600-R2

Solar Energy Update, (comprehensive, updated bibliography on solar)
TID=3351=R1 parts 1 and 2

Energy Information Data Bases (TIC)
TID-22783
(includes citations, abstracts, indexes, bibliographies, and lists on scientific and technical energy areas.)

For any of these publications or other information, contact:

DOE
P.O. Box 62
Oak Ridge, TN 37830

The Solar Energy Research Institute (SERI) functions as DOE's lead institution for solar energy research, development, and demonstration. It is a major national focus for ongoing solar technical efforts.

SERI is comprised of four main operating divisions and one support division. The research division provides technical information and options for solar energy conversion, manages technical research programs, and identifies technical and cost barriers. The analysis and assessment division studies environmental, institutional, and social factors in solar technology and conducts analytical investigations, including economic feasibility reports. The informational, educational, and international programs department conducts national conferences and workshops, develops programs in education and training and in information dissemination, fosters United States participation in international solar energy programs, and is establishing the Solar Energy Information Data Bank (SEIDB). The technical commercialization division functions as a communication link with all sectors of the solar community. It assesses market readiness of technologies and collects and distributes information on standards, materials, markets, regulatory requirements, business risks, consumer attitudes and market barriers and constraints. Support work for the technical departments such as procurement and accounting, is handled through the administrative and technical service division.

Major SERI services include two development programs and an information center. The Solar Energy Information Data Bank (SEIDB) is being developed to disseminate information on solar. Although not yet fully established, SEIDB will offer a broad range

of information and data primarily to serve the research community, legislative bodies, and commercial and industrial groups. Eventually the general public will also be served by SEIDB.

Primary solar technical research and development programs include: photovoltaics; clean fuels from biomass; dispersed wind energy systems; decentralized solar energy application; solar energy storage systems; solar industrial process heat; passive solar technologies; and central solar power systems.

A series of programs has been established to create a solar development base. They are: solar program planning and analysis; solar energy information systems; international solar energy programs; university solar energy research; basic and applied solar energy research; program management; education and training; and reliability and standards development.

Conservation and Solar Application

The primary focus of the division of Conservation and Solar Application is to develop and implement conservation programs and to conduct technical application programs. Commercialization studies and activities are an important function of this branch.

The office of Solar Heating and Cooling, or thermal applications, is divided into five programs which are listed here along with a contact person.

Solar Heating and Cooling of Buildings
Ron Scott, Assistant Director
Heating and Cooling
Office of Assistant Secretary
Conservation and Solar Application
DOE
20 Massachusetts Ave., N.W.
Washington, D.C. 20545 202/376-9610

Barriers and Incentives
Roger Bezdik
Conservation and Solar Application
Mail Stop 2221C
DOE
20 Massachusetts Ave., N.W.
Washington, D.C. 20545 202/376-9616

Agriculture and Industrial Process Heat Application
Bill Auer
Conservation and Solar Application
Mail Stop 2221C
DOE
20 Massachusetts Ave., N.W.
Washington, D.C. 20545 202/376-9633

Passive Solar
Mike Maybaum
Research and Development Branch
Conservation and Solar Application
Mail Stop 2221C
DOE
20 Massachusetts Ave., N.W.
Washington, D.C. 20545 202/376-9642

Demonstration

Residential

Joe Sherman, Division Director
Room 8158
Building Technology and Standards
DOE
451 7th Street, S.W.
Washington, D.C. 20410 202/755-6443

Non-residential

Bill Corcoran
Conservation and Solar Application
DOE
20 Massachusetts Ave., N.W.
Washington, D.C. 20545 202/376-9604

The Office of Technology Transfer promotes the commercialization of early impact technologies by providing an information exchange among groups and individuals involved in solar energy. Technology Transfer works through documents, public media materials, exhibits, presentations, workshops, and conferences to provide solar information to small businesses, universities, contractors, lending institutions, minority community groups, and other organizations. A consumer representative plan to obtain feedback on technology transfer programs is being developed. Other activites include development of education programs, implementation of an international program to speed solar commercialization, and coordination of technology transfer with local and state governments. TIC,SERI, and the National Laboratories are used for outreach programs.

The National Laboratories Outreach Program is a national network of five labs that provide technology transfer activites on a regional basis. The labs' targeted audience includes industry related groups, architects, builders, engineers, lenders, contractors, plumbers, manufacturers, and distributors. In addition to technical transfer, two of the labs have received further solar duties. Sandia Lab is to identify organizations that can help accelerate commercial development of solar technologies. Lawrence Livermore Lab will speed up the distribution of technical information to industrial and professional groups and state and local government.

Traditionally, the national labs have strongly emphasized nuclear power and its development, including weapons, physics, reactor development, and biomedical and environmental research. Non-nuclear research, development, and demonstration activites are often small and fragmented. The labs' budget outlay for non-nuclear programs in 1976, (fossil fuels, solar, geothermal, and conservation), was about

8% of the total. A study was done by the General Accounting Office to ascertain why non-nuclear programs had received such little attention and whether the labs had the research facilities to expand their non-nuclear programs significantly. That study, entitled, "Multiprogram Labs: National Resource for Non-Nuclear Energy Research, Development, and Demonstration May 22, 1978" (EMD-78-62) may be obtained free by writing to:

U.S. General Accounting Office
Distribution Section Room 4522
441 G Street, N.W.
Washington, D.C. 20548

Brookhaven National Laboratory (NE) 516/345-2123
Upton, N.Y.

Oak Ridge National Laboratory (S) 615/483-8611
Oak Ridge, TN

Sandia National Laboratory (SW) 505/264-5678
Albuquerque, NM

Lawrence Livermore National Laboratory (W)
Livermore, CA 415/447-1100

Pacific Northwest National Laboratory (NW)
Richland, WA 509/942-7411

DOE locator 202/252-5000

Government locator 202/655-4000

The Installer Training and Education Program is an accredited correspondence course that offers training in solar technologies to workers already skilled in relevant trades.

contact:
Debra Langford
Room 2221C
DOE
20 Massachusetts Ave., N.W.
Washington, D.C. 20545 202/376-1983

The Solocost Program is a simplified design method for residential and light commercial solar heating and cooling as well as solar hot water systems. It features heat load calculation, solar vs. conventional cost comparison, and solar system sizing. The booklet describing the program is available free from:

International Business Service, Inc.
Solar Group
1010 Vermont Ave., N.W.
Washington, D.C. 20005 202/628-1450

The general contact for information on technology transfer is:

Lawnie Taylor
Solar Technology Transfer Branch
Division of Solar Energy
DOE
600 E Street, N.W.
Washington, D.C. 20545 202/376-9146

Public Affairs

The Public Affairs office can provide certain general information, educational materials, and references for questions they cannot answer. Energy educational resources include curriculum materials, teacher aids, an energy publications bibliography, and energy film catalogues. Four solar fact sheets are available but supplies are limited. This fall a new, overall solar brochure will be published which will replace several current fact sheets. The speakers bureau can help organizations, free of charge, to locate appropriate speakers for any public engagement. The Solocost Handbook is Available from this office.

contact:
Public Affairs
DOE
Forrestal Building
Washington, D.C. 20565

Ream Vawter, Educational Programs Division
202/376-9211

Stephanie Scottie, Speakers' Bureau
202/566-9484

Estelle Wizer
202/376-9878

Hazel Whitaker
202/376-9879

The office of Small Scale Technology is being developed to tap the great potential of individual inventors and small business firms. The emphasis of the program is on projects not suitable for conventional demonstration programs.

contact:
Maxine Savits, Director
Division of Buildings and Community Systems
DOE
20 Massachusetts Ave., N.W.
Washington, D.C. 20545 202/376-4646

GENERAL ACCOUNTING OFFICE (GAO)

The GAO Energy Digest (GPO-020-000-00151-8) is a bibliography of energy related documents produced by the General Accounting Office from July 1972 to March 1977. It includes audit reports, special studies, speeches and testimony and discusses, among other energy issues, energy conservation, renewable resources, federal financial incentives, and domestic and international energy policies.

GAO has issued several solar reports which are critiques of specific federal programs. Each order is limited to five different reports. Single copies are free and available from GAO.

Planning for Opportunities to Improve Solar Energy and Development (11/30/76 EMD778)

Letter Report on SERI - (9/9/77 EMD7767)

Letter Report on SERI - (11/25/77 EMD7820)

Determination of Roles and Reporting Structure of SERI and Regional Network - (1/24/78 EMD7826)

Magnitude of Federal Solar Energy Program and effects of Different Levels of Funding - (2/2/78 EMD7827)

Solar Demonstration on Federal Reserve: Better Planning and Management Control Needed - (4/13/78 EMD7853)

Solar Demonstration on Federal Reserve: Better Planning and Management Control Needed - (4/14/78 EMD7840)

contact:
USGAO
441 G Street, N.W.
Washington, D.C. 20013 202/275-6241

For the GAO report on national labs, see: DOE Technical Transfer.

GENERAL SERVICES ADMINISTRATION (GSA)

GSA produces the Consumer Information Catalogue, a publication including, smong other topics, a section on home energy conservation and solar energy.

contact:
Consumer Information Center
Pueblo, CO 81009

GOVERNMENT PRINTING OFFICE (GPO)

The Government Printing Office is the printer of the federal government and publishes the documents of several departments, agencies, and offices. Publications range from pamphlets to

multi-volume reports and include tens of thousands of titles. Some documents are free and some are for sale. Use the GPO index number in ordering whenever it is known. (Several of the publications described in this directory list the multi-digit GPO number.)

Some free, useful publications are:

Consumer's Guide to Federal Publications

Government Periodicals and Subscription Service

Subject Bibliography #9 - Solar Energy

contact:
Superintendent of Documents
USGPO
Washington, D.C. 20402 202/783-3238

HEALTH, EDUCATION, AND WELFARE (HEW)

Consumer Affairs

The Office of Consumer Affairs (OCA) collects consumer complaints in established areas of consumer problems and provides that data to the legislature, Domestic Policy Review, special committees, and other such groups. OCA provides an information exchange rather than individual consumer assistence. No legal or professional referrals are given but direct information is available.

An OCA booklet, Buying Solar, (GPO-041-018000120-4), contains a glossary of solar terms, defines solar energy, including wind and biomass, describes available solar systems, and outlines a five point program to help consumers ascertain the viability of retrofitting their homes.

contact:
Kevin Cronin or Lee Richardson
Office of Consumer Affairs
HEW
621 Reporters Building
Washington, D.C. 20201

Education

The Office of Education is in the process of establishing the Energy and Education Action Center. The Center will provide technical assistance and information to educational institutions. In addition to encouraging energy conservation in schools, the Center will develop curriculum materials on energy and the environment, support in-service training of educators on energy awareness, and identify career and vocational programs in energy related fields.

contact:

Dr. Wilton Anderson, Director
Energy and Education Action Center
Room 514 Reporters Building
U.S. Office of Education
300 7th Street, S.W.
Washington, D.C. 20202 202/472-7777

HOUSING AND URBAN DEVELOPMENT (HUD)

Housing and Urban Development in conjunction with DOE, has established the National Solar Heating and Cooling Information Center (NSHCIC) which serves as the primary source of solar information for the public. NSHCIC provides basic information in lay terms, names of architects and builders that specialize in solar design, detailed technical findings, listings of books and periodicals on specific solar subjects, and the latest information on available government services. The Center can help arrange exhibits and speakers for community groups, professional conferences, and trade shows. If NSHCIC cannot answer a question, it is referred to the proper source.

Most federal agencies will direct public inquiries to NSHCIC.

contact:

Solar Heating
P.O. Box 1607
Rockville, MD 20850
800/523-2929
In Pennsylvania, call 800/462-4983

LIBRARY OF CONGRESS

The Library of Congress provides a public reference service to written requests on solar energy. Detailed, specific question receive more thorough investigation than general, send-me-all-you-have inquiries. If necessary, a request will be referred to other sources.

contact:

Library of Congress
General Reference and Bibliography Division
1st Street and Independence Ave., S.E.
Washington, D.C. 20540

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

NASA conducts some solar programs primarily to complement DOE activities. The photovoltaic program develops low cost, reliable photovoltaic systems and makes them commercially available to industry and business. The solar heating and cooling project

researches, develops, and demonstrates cost-effective, commercially acceptable solar heating and cooling systems. Most public inquiries will be referred to TIC.

contact:
Kenneth Atchison, Program Director
Office of Energy Programs
NASA
Washington, D.C. 20546 202/755-3147

NATIONAL SCIENCE FOUNDATION (NSF)

Science for Citizens

The Science for Citizens Program is designed to increase the interaction of the scientific community and the public in the resolution of major public issues involving science and technology. Program grants are awarded to non-profit groups or those answering citizen needs. The programs are community oriented with emphasis on minority communities. NSF sponsors conferences and workshops on policy issues including energy conservation and solar energy applications.

contact:
Rochelle Hollander, Program Director
NSF
Washington, D.C. 20550 202/282-7770

Information and program schedule for 1979 will be available in Fall, 1978.

The Guide to Programs, (GPO-038-000-00342-9), for NSF summarizes programs for 1978, including program descriptions and addresses for brochures or more detailed information. Program modifications, program schedules, availability of brochures, and other information are abailable in the free NSF monthly Bulletin.

contact:
Editor
NSF Bulletin
Public Information Branch
NSF
Washington, D.C. 20550

TENNESSEE VALLEY AUTHORITY (TVA)

The Tennessee Valley Authority has an extensive solar outreach program aimed at the commercialization and increased use of solar equipment. The long term goal of the TVA program is to establish by 1996 a solar market large enough to deter the need for additional electrical generating capacity. The Solar Program for 1978-1983 includes space heating and cooling, use and production of biomass, industrial process heat and solar electrical applications, and commercial implementation.

contact:

Jim McMahon
TVA
Solar Applications Staff
426 United Bank Building
Chattanooga, TN 37402 615/755-3011 Ext. 3587